

Appl. No. 09/945,524

Amdt. dated March 21, 2005

Reply to Office action mailed November 23, 2004

Amendments to the Specification:

Please replace paragraphs 0005, 0007.1, 0007.2 and 00016 by the following:

[0005] The present invention is directed to an apparatus for applying a ribbon to a web during the processing of the web, i.e., for the manufacture of a substrate for container construction. The apparatus of the present invention is used to dispense a ribbon onto a web in a predetermined position and to be able to adjust the position of the ribbon with relationship to the edges of the web remotely and automatically. The apparatus includes a frame defining a web path defining a path width supporting a lead screw means used to move each guide arm along the frame, locking means to position the guide arm in a desired fixed position along the guide rail, means for determining the position of the guide arm transversely of the web direction of movement or the machine direction of the web and means for adjusting the position of each guide arm following the lateral movement of the web. The frame includes a guide rail. The guide arm is supported on the guide rail for movement there along. The guide arm includes guide pulleys for receiving a ribbon from a remote supply which is fed to the guide arm transversely of the web and for locating the ribbon on the web for attachment and lamination thereto.

[0007.1] There is therefore provided an apparatus for the positioning of a dispenser for laminating an endless ribbon in relationship to a moving web having generally parallel edges defining a web width ~~the web width not exceeding a certain maximum width~~, said apparatus comprising:

- a) a web path defining a path width that is wider than or equal to the web width;
- a)b) a traversing mechanism extending transversally of ~~said the web path width~~ and coupled to a drive means, said traversing mechanism defining a traversing path of a first predetermined length, having a direction and which provides a movement means along said traversing path,
- b)c) a guide rail of a second predetermined length, extending transversally of ~~said the web width~~ path and positioned in a parallel direction to said direction of said traversing path,
- c)d) a plurality of guide arms, each said guide arm having

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i. a dispensing means for dispensing said ribbon and a transversal position with respect to said traversing path,

ii. a locking means,

each said guide arm being movably supported on said guide rail and being either fixedly connected to said movement means or being fixedly connected to said apparatus by said locking means,

wherein said first predetermined lengths of said traversing path and said second predetermined lengths of said guide rail means transversely extend beyond ~~the said certain~~ maximum-{{web}}-width web path.

[0007.2] There is furthermore provided an apparatus for the positioning of a dispenser for laminating an endless ribbon in relationship to a moving web having generally parallel edges and defining a web width ~~not exceeding a certain maximum width,~~ said apparatus comprising a web path defining a path width that is wider than or equal to the web width, a traversing mechanism extending transversally of ~~said the web pathwidth~~ and defining a traversing path having a direction, said traversing mechanism further provides a movement means along said traversing path, a guide rail extending transversally of ~~said the web pathwidth~~ and positioned in a parallel direction to said direction of said traversing path, each ~~the said~~ traversing mechanism and said guide rail extend beyond ~~said the web path certain maximum width,~~ a plurality of guide arms, each having a transversal position with respect to said traversing path and comprising a locking means, each said guide arm being movably supported on said guide rail and being either fixedly connected to said movement means or being fixedly connected to said apparatus by said locking means, said apparatus further comprising:

- a) a control actuating system remotely controlling said locking means via a communication means,
 - b) a guide arm position measuring system acquiring said transversal position of each said guide arm,
 - c) an edge position measuring system tracking at least one of said edges of said web and which generates a transversal edge position with respect to said traversing path,
- said edge position measuring system and said guide arm position measuring system are linked to said control actuating system via said communication means.

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[00016] The present invention provides an improved apparatus for the dispensing of a ribbon onto a moving web at a desired path on the web, with the apparatus including at least one ribbon dispensing guide arm independently adjustable transversely of the direction of movement of the web, and also includes a means to thread the ribbon on the guide arm on the outside of the moving web and outside the web path of the apparatus.